

**ABSTRACT OF DISCLOSURE**

A data network comprising a host system having a host-fabric adapter; at least one remote system; a switch fabric which interconnects said host system via said host-fabric adapter to said remote system along different physical links for data communications; and at least one communication port provided in the host-fabric adapter of the host system including a set of transmit and receive buffers capable of sending and receiving data packets concurrently via respective transmitter and receiver at an end of a physical link, via the switched fabric, and a flow control mechanism utilized to prevent loss of data due to receive buffer overflow at the end of the physical link.